

# Service Manual

Radio

4-BAND PORTABLE RADIO  
WITH CASSETTE TAPE RECORDER

Original

R-5410B



## ■ SPECIFICATIONS

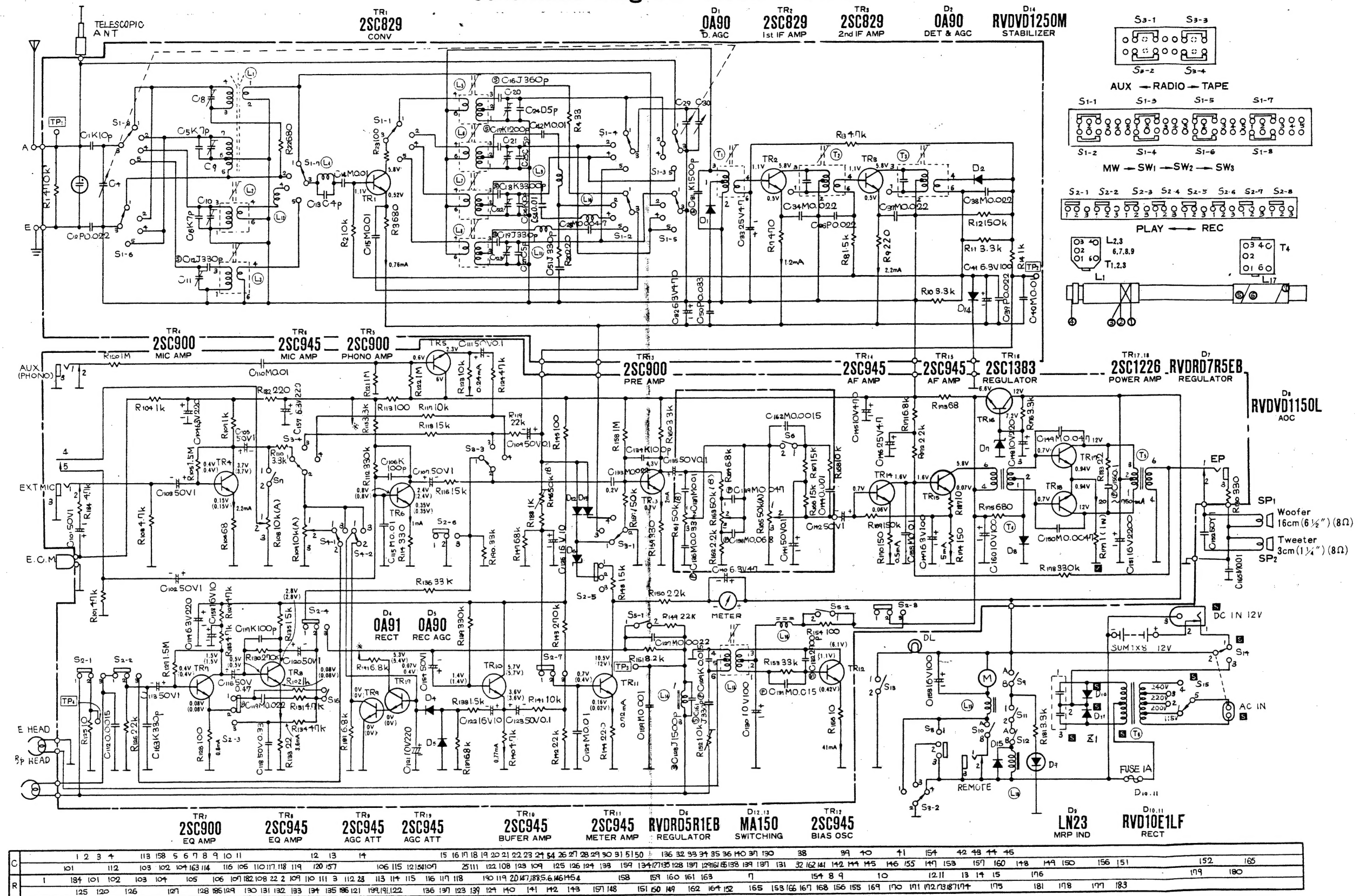
Frequency Range:	MW 520~1610 kHz (577~186m)	Power Consumption:	15 Watt (AC Only)
	SW <sub>1</sub> 1.6~4.5 MHz (187~66.7m)	Speakers:	Woofer 16 cm (6½") PM Dynamic Speaker
	SW <sub>2</sub> 4.5~12 MHz (66.7~25m)		Tweeter 3 cm (1½") PM Dynamic Speaker
	SW <sub>3</sub> 12~26.1 MHz (25~11.5m)	Dimensions:	406(Wide) x 241(High) x 105(Deep) mm (16" x 9½" x 4¼")
Intermediate Frequency:	AM 455 kHz	Weight:	4.3 kg (9 lb. 8 oz.) without batteries
Sensitivity:	MW 50μV/m for 50mW Output	Impedance:	Speaker ..... 8Ω
	SW <sub>1</sub> 20μV/m for 50mW Output		Earphone Jack ..... 8Ω
	SW <sub>2</sub> 5μV for 50mW Output		Aux Jack ..... 1MΩ
	SW <sub>3</sub> 5μV for 50mW Output		Microphone Jack ..... 47kΩ
Power Output:	6.5W Maximum		
Power Source:	AC 115/200/220/240V 50/60 Hz, 12V (Eight "D" Size Flashlight Batteries) (National UM-1 or equivalent)		

Specifications are subject to change without notice for further improvement.

**National Panasonic**

Matsushita Electric Trading Co., Ltd.  
P.O. Box 288, Central Osaka, Japan

# Schematic Diagram-Model R-5410B

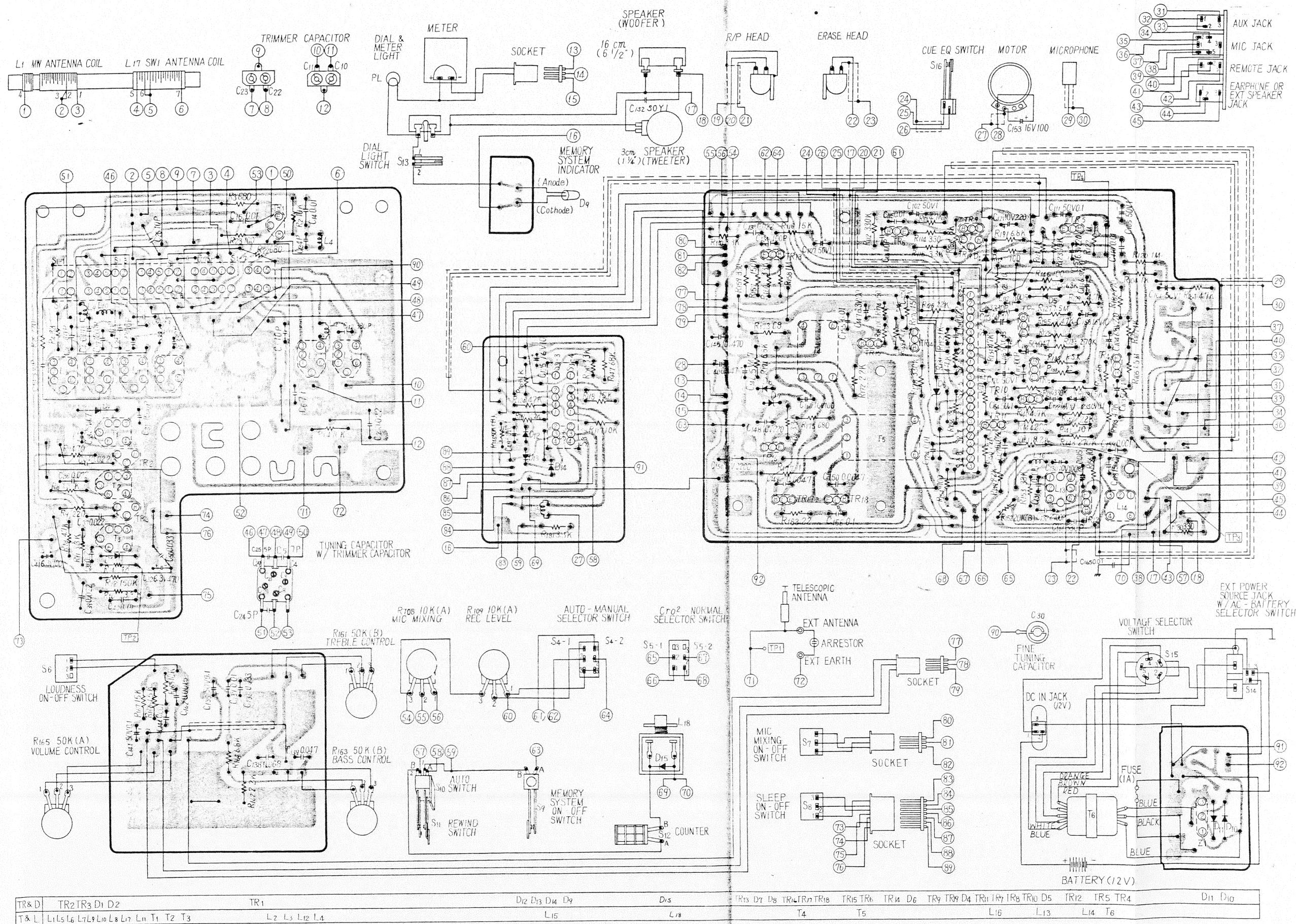


## Notes:

- S1-1~S1-8: Band selector in "MW" position.
- S2-1~S2-8: Recording-play selector in "Play" position.
- S3-1~S3-5: Radio-aux-tape selector in "Tape" position.
- S4-1, S4-2: Rec switch in "Manual" position.
- S5-1, S5-2: Tape switch in "Normal" position.
- S6: Loudness switch in "OFF" position.
- S7: Mic mixing switch in "OFF" position.
- S8: Sleep switch in "OFF" position.
- S9: Memory system switch in "OFF" position.
- S10: Auto switch in "OFF" position.
- S11: Rewind switch in "OFF" position.
- S12: Counter switch in "OFF" position.
- S13: Dial light switch in "OFF" position.
- S14: AC-battery selector in "Battery" position.
- S15: Voltage selector in "115V" position.
- S16: Cue EQ switch in "OFF" position.
- DC voltage measurements are taken with circuit tester 10ka/V from negative terminal of battery.
- ( ).....Recording position
- Battery current. No signal..... 70mA  
Maximum output .....940mA



# Circuit Board Wiring View-Model R-5410B



TR <sub>1</sub>			TR <sub>10</sub>		
C	5.8V		Recording		
B	1.1V		C	5.7V	5.7V
E	0.52V		B	1.4V	1.4V
I <sub>e</sub>	0.76mA		E	3.6V	3.6V
			I <sub>e</sub>	0.77mA	0.77mA

TR <sub>2</sub>			TR <sub>11</sub>		
C	5.8V		Recording		
B	1.1V		C	10.5V	12V
E	0.5V		B	0.7V	0.4V
I <sub>e</sub>	1.2mA		E	0.16V	0.02V
			I <sub>e</sub>	0.72mA	0.72mA

TR <sub>3</sub>			TR <sub>12</sub>		
C	5.8V		Recording		
B	1.1V		C	6.1V	
E	0.5V		B	1.1V	
I <sub>e</sub>	2.2mA		E	0.42V	
			I <sub>e</sub>	4.1mA	

TR <sub>4</sub>			TR <sub>13</sub>		
Recording			C	1.3V	
C	3.7V	3.7V	B	0.2V	
B	0.4V	0.4V	E	0.7V	
E	0.15V	0.15V	I <sub>e</sub>	2mA	
I <sub>e</sub>	2.2mA	2.2mA			

TR <sub>5</sub>			TR <sub>14</sub>		
C	6V		C	1.6V	
B	0.6V		B	0.7V	
E	2.3V		E	0.06V	
I <sub>e</sub>	0.24mA		I <sub>e</sub>	0.5mA	

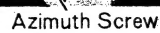
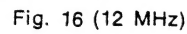
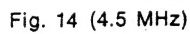
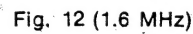
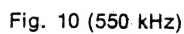
TR <sub>6</sub>			TR <sub>15</sub>		
Recording			C	1.8V	
C	2.4V	2.4V	B	1.6V	
B	0.8V	0.8V	E	1.07V	
E	0.35V	0.35V	I <sub>e</sub>	3mA	
I <sub>e</sub>	1mA	1mA			

TR <sub>7</sub>			TR <sub>16</sub>		
Recording			C	12V	
C	1.5V	1.5V	B	1.2V	
B	0.4V	0.4V	E	1.6V	
E	0.08V	0.08V			
I <sub>e</sub>	0.8mA	0.8mA			

TR <sub>8</sub>			TR <sub>17,18</sub>		
Recording			C	12V	
C	2.8V	2.8V	B	0.7V	
B	0.5V	0.5V	E	1.94V	
E	0.08V	0.08V	I <sub>e</sub>	30mA	
I <sub>e</sub>	3.6mA	3.6mA			

TR <sub>9</sub>			TR <sub>19</sub>		
Recording			C	0.3V	3.4V
C	0V	0V	B	0.37V	0.4V
B	0V	0V	E	0V	0V
E	0V	0V			

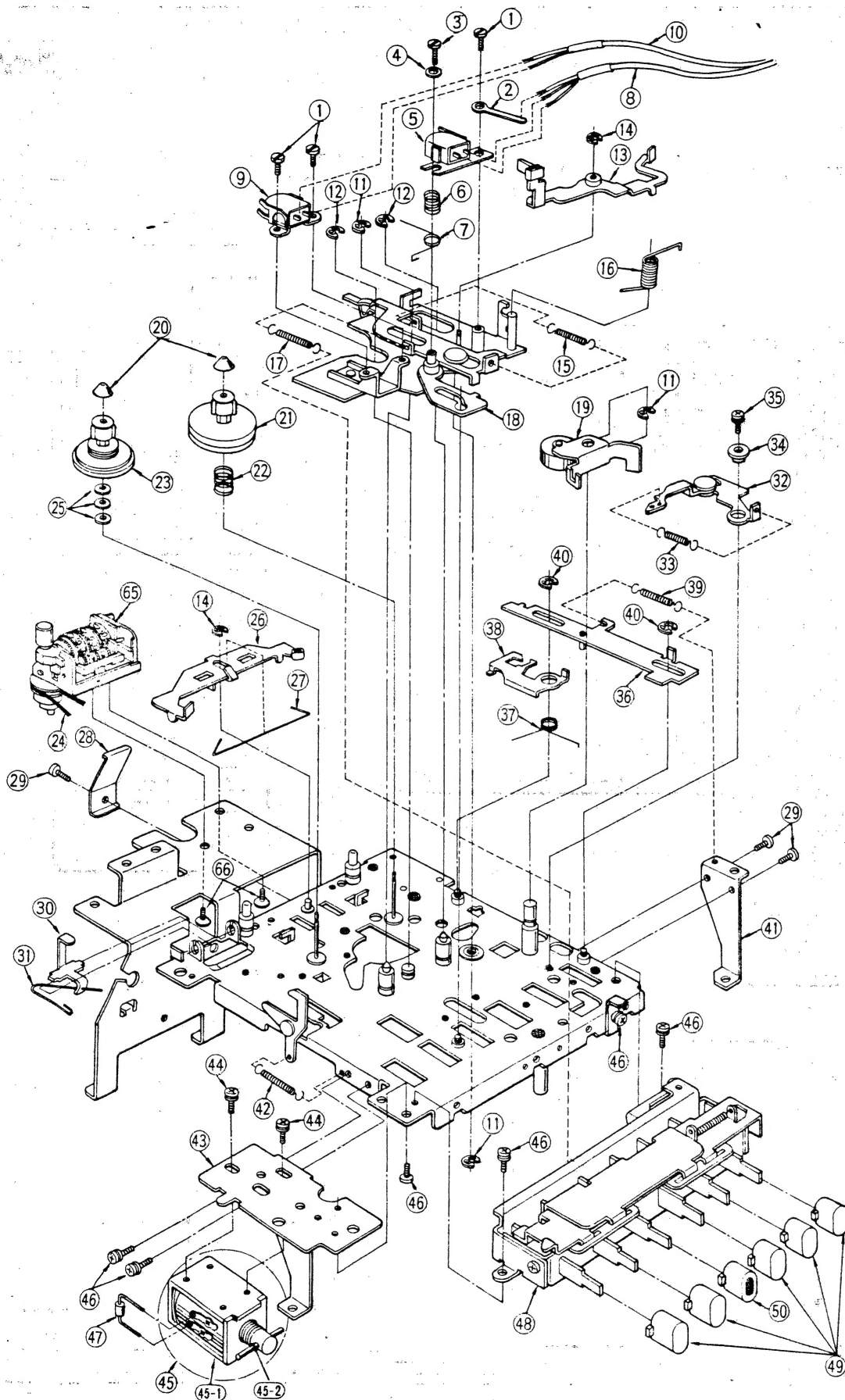
CONFIDENTIAL



**Fig. 18**



# MECHANISM PARTS LOCATIONS—TAPE DECK



3	10
4	1
5	8
1	2
11	14
6	13
12	
12	
7	16
20	15
17	11
21	35
22	19
23	18
25	34
	32
65	40
14	33
26	39
	40
27	38
28	36
24	37
29	
	29
66	
30	41
31	
	46
	46
44	
42	11
44	46
43	
	46
46	
47	50
45	48
45-1	
45-2	49

Fig. 19 (Top View)

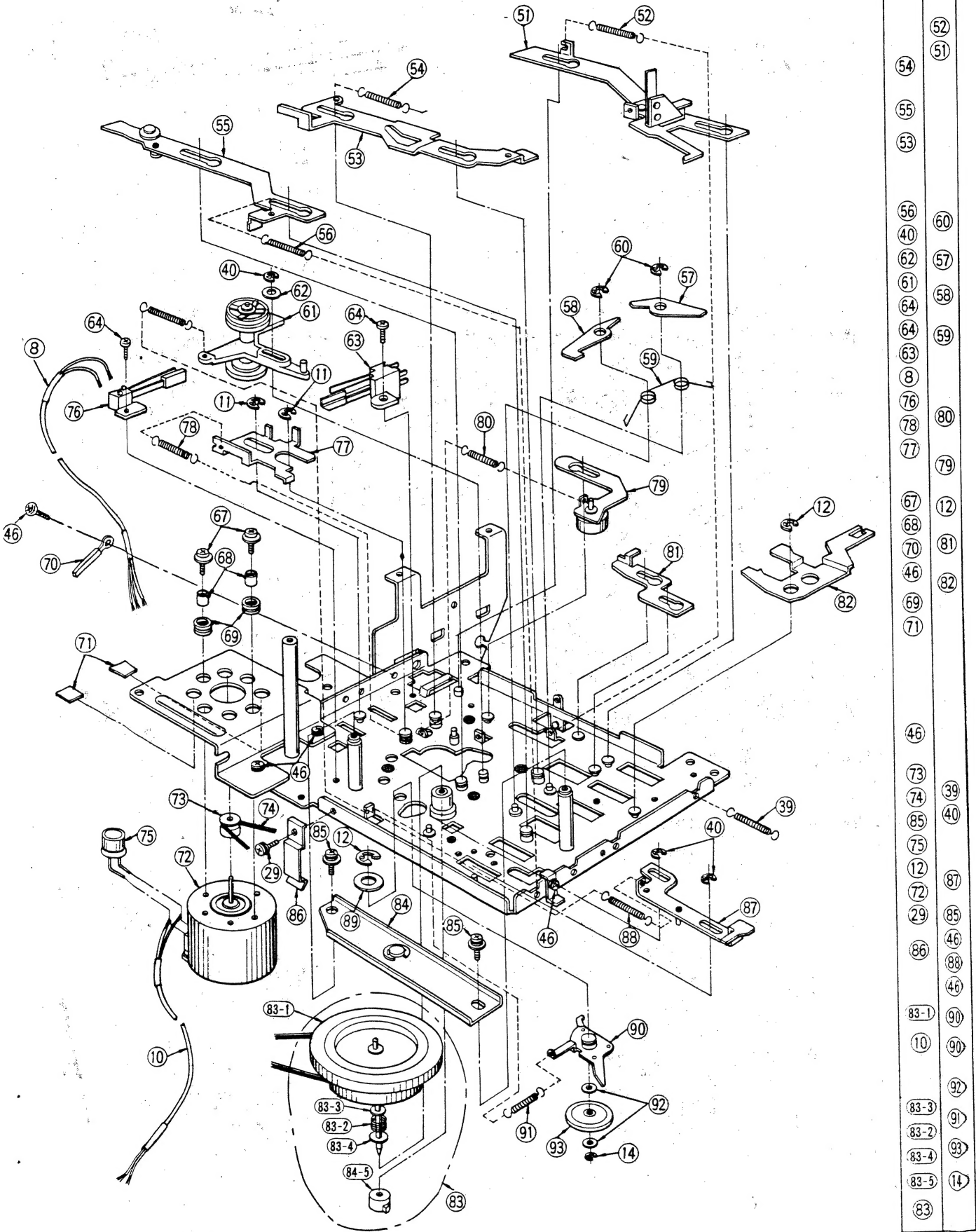


Fig. 20 (Rear View)



## ■ CABINET PARTS LOCATION

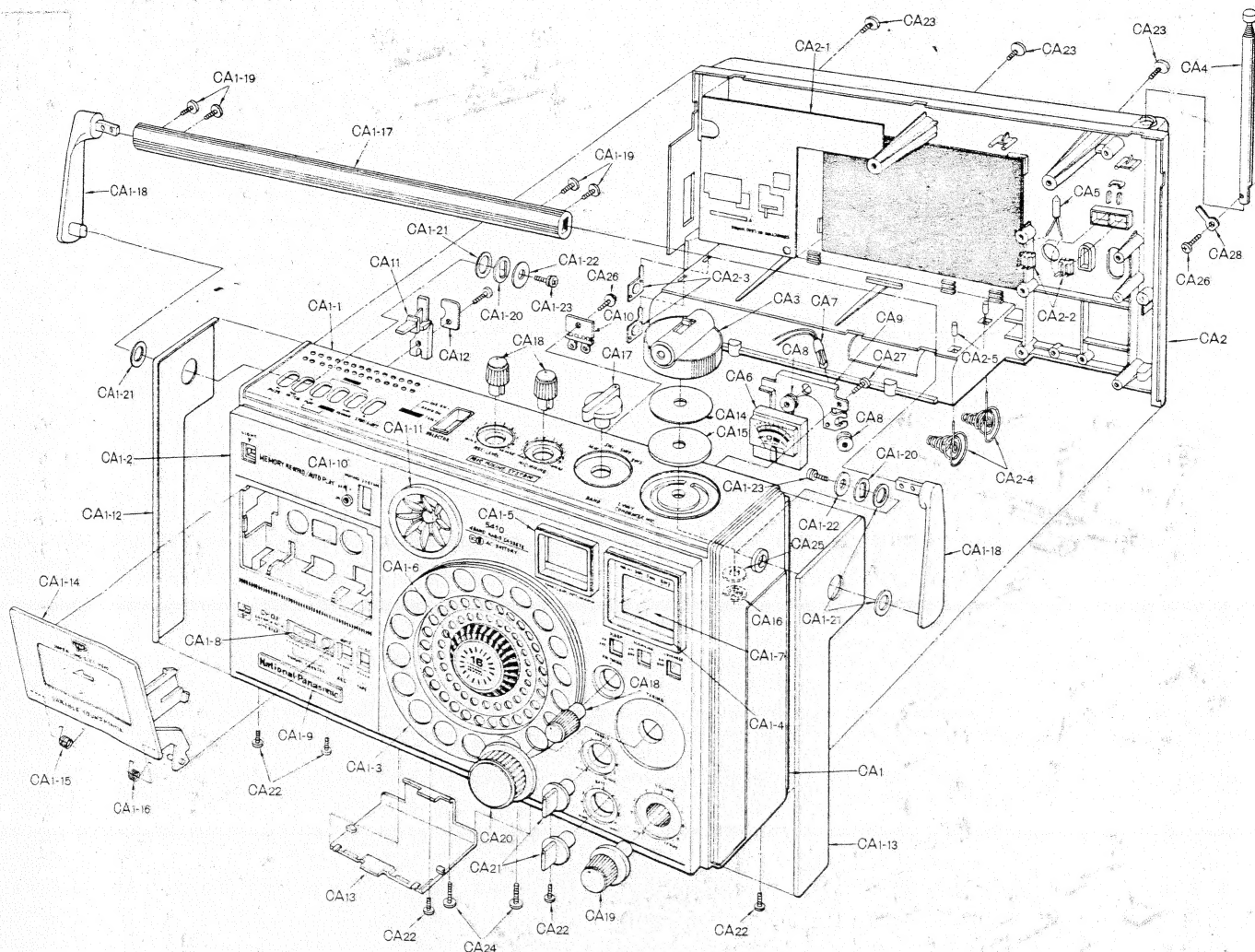


Fig. 21

## ■ CHASSIS PARTS LOCATION

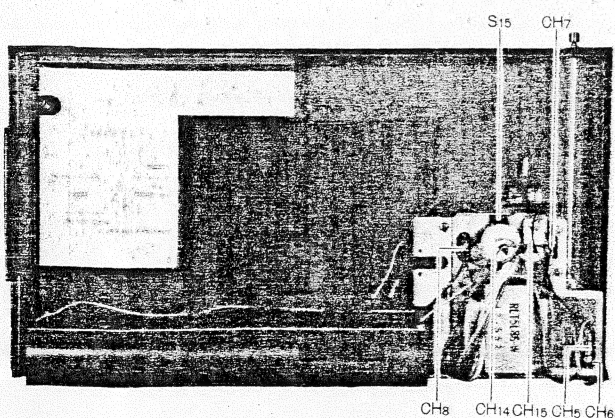


Fig. 22

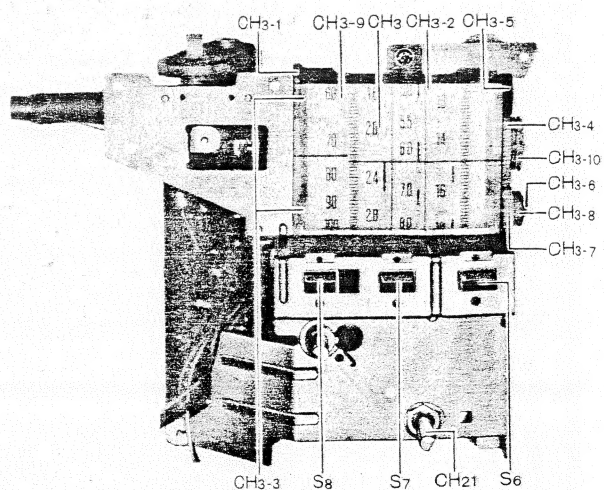


Fig. 23

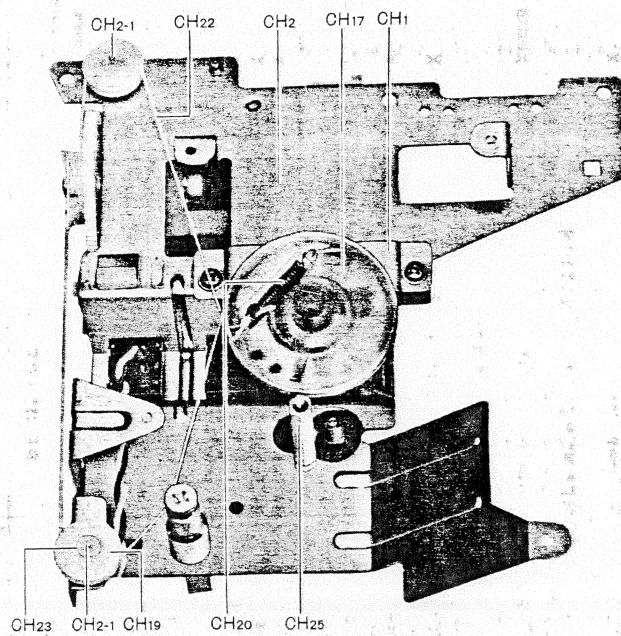


Fig. 24

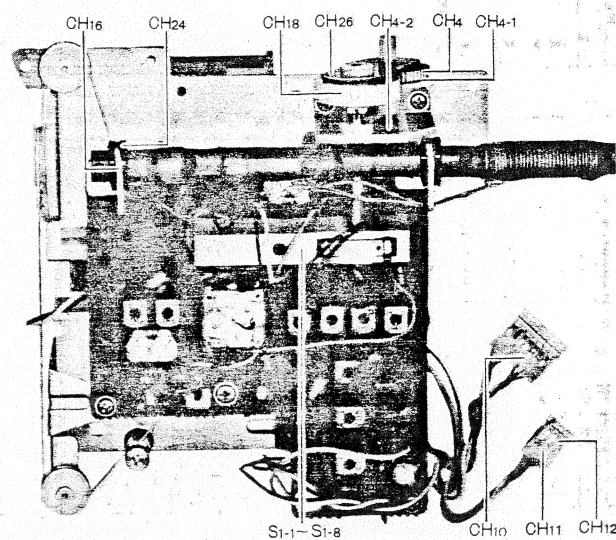


Fig. 25

## ■ ACCESSORIES AND PACKING MATERIALS

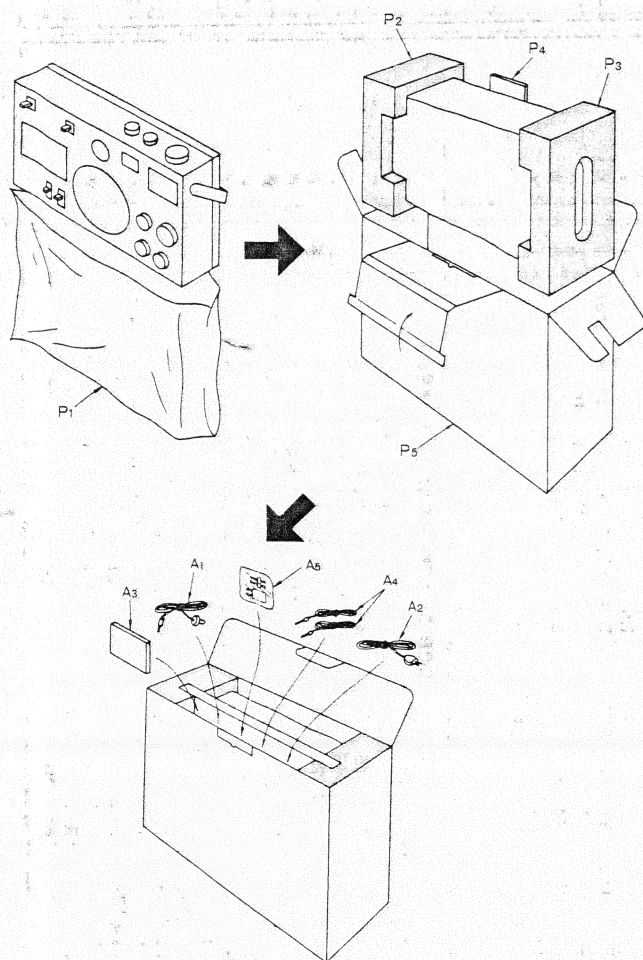


Fig. 27

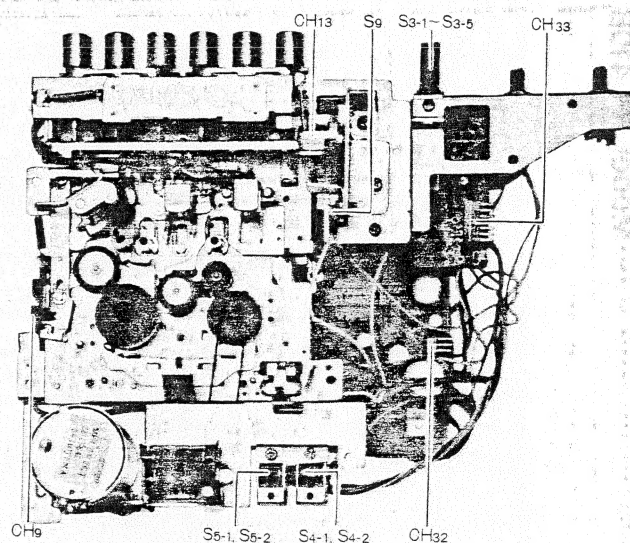


Fig. 26



# REPLACEMENT PARTS LIST.....Model R-5410B

**NOTES:** 1.Part numbers are indicated on most mechanical parts.  
Please use this part number for parts orders.  
2.X-Z rank: X rank parts will cover 80% of repair needs.  
X+Y rank parts will cover 95% of repair needs.  
Z rank parts are less necessary.  
3. **XXXX** Indicates that only parts specified by the manufacturer be used for replacement in critical circuits.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>TRANSISTORS AND DIODES</b>				
TR1,2,3	2SC829	Transistor(Si), Converter, 1st IF Amplifier, 2nd IF Amplifier	3	X
TR4,5,7,13	2SC900	Transistor(Si), MIC 1st Amplifier, PHONO(AUX) Amplifier, Equalizer, 1st Amplifier, PRE Amplifier	4	X
TR6,8,9,10,11,12,14,15,19	2SC945	Transistor(Si), MIC 2nd Amplifier, Equalizer 2nd Amplifier, AGC ATT Buffer Amplifier, Meter Amplifier, Bias Oscillator, AM 1st Amplifier, AF 2nd Amplifier, Regulator, AGC 1st Amplifier	9	X
TR16	2SC1383	Transistor(Si), Regulator	1	X
TR17,18	2SC1226	Transistor(Si), Power Amplifier	2	X
D1,2,5	OA90	Diode(Ge), AM Detector & AGC, AM D.AGC, REC AGC	3	X
D4	OA91	Diode(Ge), Rectifier AGC	1	X
D6	RVDRD5R1EB	Diode(Si), Regulator	1	X
D7	RVDRD7R5EB	Diode(Si), Regulator	1	X
D8	RVDVD1150L	Diode(Si), Operation Compensator	1	X
D9	LN23	Diode(Si), MRP Indicator	1	X
D12,13	MA150	Diode(Si), Switching	2	X
D14	RVDVD1250M	Diode(Si), Stabilizer	1	X
D10,11	RVD10E1LF	Diode(Si), Rectifier	2	X
<b>COILS AND TRANSFORMERS</b>				
L1,17	RLF5F72-O	Antenna Coil, MW, SW1	1	X
L2	RLA3M5	Antenna Coil, SW2	1	X
L3	RLA3M6	Antenna Coil, SW3	1	X
L4,9	RLQY7S5-O	Coil, Choke	2	Y
L5	RLO2M6	Oscillator Coil, MW	1	X
L6	RLO3M6	Oscillator Coil, SW1	1	X
L7	RLO3M7	Oscillator Coil, SW2	1	X
L8	RLO3M8	Oscillator Coil, SW3	1	X
L10	RLQY10G5-O	Coil, Choke	1	Y
L11	RLQY15S5-O	Coil, Choke	1	Y
L12	RLQY50S5-O	Coil, Choke	1	Y
L13	RLO9C16-K	Oscillator Coil	1	OX
L14	RLE5001-K	Coil, Trap	1	OY
L15	RLQX101-1Y	Coil, Choke	1	Y
L16	RLQZ102-1-Q	Coil, Choke	1	Y
T1	RLI2M203	IFT, 1st	1	X

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
T2	RLI2M205	IFT, 2nd	1	X
T3	RLI2M402	IFT, 3rd	1	X
T4	RLT3G30-V	Input Transformer, P=1.4KΩ	1	X
T5	RLT2I15-W	Output Transformer, P=50Ω: S=8Ω	1	OX
T6	RLT5L86-W	Power Transformer	1	OX
<b>VARIABLE RESISTORS</b>				
R108,109	EVH60AF15A14	Variable Resistor, 10KΩ(A), Rec Level & Mic Mixing Control	2	OX
R161,163	EVH0XAF15B54	Variable Resistor, 50KΩ(B), Treble & Bass Control	2	OX
R165	EVH0XAF15A54	Variable Resistor, 50KΩ(A), Volume Control	1	OX
R146	EVLTA4AA00B54	Semi-Fixed Variable Resistor, 50KΩ(B), Meter Control	1	X
R152	EVLTA4AA00B24	Semi-Fixed Variable Resistor, 20KΩ(B), Rec Bias Control	1	X
<b>VARIABLE CAPACITORS</b>				
C4,29	PVC2K20T1L	Tuning Capacitor, W/Trimmer Capacitor(C8,9,20,21)	1	X
C30	RCVFT1-19-4	Fine Tuning Capacitor	1	OX
C10,11,22,23	RCV2T-16M	Trimmer Capacitor	2	X
<b>COMPONENT COMBINATION</b>				
Z1	RXAF103P22HD	Coils & Capacitors	1	X
<b>SPEAKERS</b>				
SP1	EAS3KH01SB	Tweeter, 3cm(1 1/4") PM Dynamic Speaker, Imp.8Ω	1	OX
SP2	EAS16P48SA	Woofer, 16cm(6 1/2") PM Dynamic Speaker, Imp.8Ω	1	OX
<b>SWITCHES</b>				
S1-1~S1-8	RSR87ZK-A	Switch, Band	1	X
S2-1~S2-8	RSH65Z-P	Switch, Recording-Play	1	X
S3-1~S3-5	RST30ZS-H	Switch, Radio-Aux-Tape	1	OX
S4-1,S4-2	RST68Z-H	Switch, Rec & Tape	2	OX
S5-1,S5-2				
S6,S7,S8	RSS43E	Switch, Loudness, Mic Mixing & Sleep	3	X
S9	RSH43Z-H	Switch, Memory System	1	X
S13	RSH61A	Switch, Dial Light	1	X
S15	ESE-3715	Switch, Voltage Selector	1	OX
<b>RESISTORS</b>				
R174	ERD18VJ151	150Ω, 1/8Watt, ±5%, Carbon	1	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R187	ERD18VJ100	10Ω, 1/4Watt, ±5%, Carbon	1	Z
R125	ERD18SJ100	10Ω, 1/4Watt, ±5%, Carbon	1	Z
R133,183	ERD18SJ220	22Ω, 1/4Watt, ±5%, Carbon	2	Z
R4	ERD18SJ330	33Ω, 1/4Watt, ±5%, Carbon	1	Z
R106,173	ERD18SJ680	68Ω, 1/4Watt, ±5%, Carbon	2	Z
R113,128,145	ERD18SJ101	100Ω, 1/4Watt, ±5%, Carbon	4	Z
154				
R170	ERD18SJ151	150Ω, 1/4Watt, ±5%, Carbon	1	Z
R9,144,182	ERD18SJ221	220Ω, 1/4Watt, ±5%, Carbon	3	Z
R114,159	ERD18SJ331	330Ω, 1/4Watt, ±5%, Carbon	2	Z
R7	ERD18SJ471	470Ω, 1/4Watt, ±5%, Carbon	1	Z
R3,175	ERD18SJ681	680Ω, 1/4Watt, ±5%, Carbon	2	Z
R14,104,107,188	ERD18SJ102	1KΩ, 1/4Watt, ±5%, Carbon	4	Z
R8,135,138	ERD18SJ152	1.5KΩ, 1/4Watt, ±5%, Carbon	3	Z
R150,162,172	ERD18SJ222	2.2KΩ, 1/4Watt, ±5%, Carbon	3	Z
R10,11,110,115,160,176	ERD18SJ332	3.3KΩ, 1/4Watt, ±5%, Carbon	7	Z
181				
R13,101,103,129,140,184	ERD18SJ472	4.7KΩ, 1/4Watt, ±5%, Carbon	7	Z
185				
R137,164,171	ERD18SJ682	6.8KΩ, 1/4Watt, ±5%, Carbon	5	Z
189,191				
R2,117,123,141,168	ERD18SJ103	10KΩ, 1/4Watt, ±5%, Carbon	5	Z
R116,118,148	ERD18SJ153	15KΩ, 1/4Watt, ±5%, Carbon	5	Z
166,167				
R119,126,142	ERD18SJ223	22KΩ, 1/4Watt, ±5%, Carbon	4	Z
149				
R136,153	ERD18SJ333	33KΩ, 1/4Watt, ±5%, Carbon	2	Z
R124,134	ERD18SJ473	47KΩ, 1/4Watt, ±5%, Carbon	2	Z
R147	ERD18SJ683	68KΩ, 1/4Watt, ±5%, Carbon	1	Z
R12,157,169	ERD18SJ154	150KΩ, 1/4Watt, ±5%, Carbon	3	Z
R112,139,178	ERD18SJ334	330KΩ, 1/4Watt, ±5%, Carbon	3	Z
R1	ERD18SJ474	470KΩ, 1/4Watt, ±5%, Carbon	1	Z
R120,121,122	ERD18SJ105	1MΩ, 1/4Watt, ±5%, Carbon	4	Z
158				
R105,127	ERD18SJ155	1.5MΩ, 1/4Watt, ±5%, Carbon	2	Z
R192	ERD18SJ102	1KΩ, 1/4Watt, ±5%, Carbon	1	Z
R130,143	ERD18SJ274	270KΩ, 1/4Watt, ±5%, Carbon	2	Z
R151	ERD18SJ822	8.2KΩ, 1/4Watt, ±5%, Carbon	1	Z
R131	ERD18VJ472	4.7KΩ, 1/4Watt, ±5%, Carbon	1	Z
R20	ERD18TJ221	220Ω, 1/4Watt, ±5%, Carbon	1	Z
R190	ERD18VJ333	33KΩ, 1/4Watt, ±5%, Carbon	1	Z
R180	ERC12GM331	330Ω, 1/2Watt, ±20%, Solid	1	Z
R23	ERD18TJ101	100Ω, 1/4Watt, ±5%, Carbon	1	Z
R22	ERD18TJ681	680Ω, 1/4Watt, ±5%, Carbon	1	Z
R177	BRX1ANJ1ROU	1.0Ω, 1Watt, ±5%, Metal Oxide	1	Z
R156	ERD18TJ100	10Ω, 1/4Watt, ±5%, Carbon	1	Z
CAPACITORS				
G13	EGCD1H040C	4PF, 50WV, ±0.25PF, Ceramic	1	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C24,25,27	ECOD1H050C	5PF, 50WV, ±0.25PF, Ceramic	3	Z
C5,6	ECOD1H070DC	7PF, 50WV, ±0.25PF, Ceramic	2	Z
C1,26	ECOD1H100KC	10PF, 50WV, ±10%, Ceramic	2	Z
C163	ECOD1H331K	330PF, 50WV, ±10%, Ceramic	1	Z
C2,36,39	ECKE1H223PF	0.022μF, 50WV, ±10%, Ceramic	3	Z
C50	ECKE1H333PF	0.033μF, 50WV, ±10%, Ceramic	1	Z
C28,149,150	ECKE1H472MD	0.0047μF, 50WV, ±20%, Ceramic	3	Z
C14,15,40,42	ECKE1H103MD	0.01μF, 50WV, ±20%, Ceramic	11	Z
54,110,115,124,137,155				
165				
C34,37,119,133	ECKE1H223MD	0.022μF, 50WV, ±20%, Ceramic	4	Z
C106,117,134	ECCV1H101K	100PF, 50WV, ±10%, Ceramic	3	Z
C159	ECKE1H102MD	0.001μF, 50WV, ±20%, Ceramic	1	Z
C127	ECKE1H222MD	0.0022μF, 50WV, ±20%, Ceramic	1	Z
C112,162	ECKE1H152MD	0.0015μF, 50WV, ±20%, Ceramic	2	Z
C144	ECKD1H102PF	0.001μF, 50WV, ±10%, Ceramic	1	Z
C12,19,51,161	ECQS1331JZ	330PF, 125WV, ±5%, Styrol	4	Z
C16	ECQS1361JZ	360PF, 125WV, ±5%, Styrol	1	Z
C17	ECQS05122KZ	1200PF, 50WV, ±10%, Styrol	1	Z
C31,128	ECQS05152JZ	1500PF, 50WV, ±5%, Styrol	2	Z
C132	ECQS05272KZ	2700PF, 50WV, ±5%, Styrol	1	Z
C18	ECQS05332KZ	3300PF, 50WV, ±10%, Styrol	1	Z
C38	ECQG05223MZ	0.022μF, 50WV, ±20%, Polyester	1	Z
C131	ECQG05153MZ	0.015μF, 50WV, ±20%, Polyester	1	Z
C139	ECQG05473MZ	0.047μF, 50WV, ±20%, Polyester	1	Z
C156	ECQG05104MZ	0.1μF, 50WV, ±20%, Polyester	1	Z
C138	ECQG05683MZ	0.068μF, 50WV, ±20%, Polyester	1	Z
C136	ECQG05333MZ	0.033μF, 50WV, ±20%, Polyester	1	Z
C129	ECQM05153-KZ	0.015μF, 50WV, ±10%, Polyester	1	Z
C109,111,123,135,141	ECEA50ZR1E	0.1μF, 50WV, Electrolytic	5	Y
C152	ECEB50Y1	1μF, 50WV, Electrolytic	1	Y
C140	ECEA6V47E	47μF, 6.3WV, Electrolytic	1	Y
C41,147	ECEA6V100E	100μF, 6.3WV, Electrolytic	2	Y
C104,114,157	ECEA6V220E	220μF, 6.3WV, Electrolytic	3	Y
C32	ECEA6V470E	470μF, 6.3WV, Electrolytic	1	Y
C130,160	ECEA10V100E	100μF, 10WV, Electrolytic	2	Y
C121,148	ECEA10V220E	220μF, 10WV, Electrolytic	2	Y
C145	ECEA10V470E	470μF, 10WV, Electrolytic	1	Y
C122,125,158	ECEA16V10E	10μF, 16WV, Electrolytic	3	Y
C151	ECEA16V2200	2200μF, 16WV, Electrolytic	1	Y
C33,146	ECEA25V4R7E	4.7μF, 25WV, Electrolytic	2	Y
C101,102,103,105,107,113,120,154	ECEA50V1E	1μF, 50WV, Electrolytic	8	Y
C116	ECEA50ZR47E	0.47μF, 50WV, Electrolytic	1	Y
C118	ECEA50ZR33E	0.33μF, 50WV, Electrolytic	1	Y
C142	ECEA50V1	1μF, 50WV, Electrolytic	1	Y
CABINET				
CA1	RYMR5410BX	Cabinet Body Assembly	1	OX



Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CA1-1	Not Available, Order RYMR5410BX	Cabinet Body Only	(1)	
		Indicating Plate, Cabinet Upper Side	(1)	
		Escutcheon, Indicating Plate	(1)	
		Net, Speaker	(1)	
CA1-2		Escutcheon, MEMORY REWIND/	(1)	
		AUTO PLAY 5410 etc. Mark		
CA1-3		Ornament (Large), Speaker	(1)	
CA1-4		Ornament, Dial	(1)	
CA1-5		Ornament, Meter	(1)	
CA1-6		Ornament (Small), Speaker	(1)	
CA1-7		Transparent Panel, Dial	(1)	
CA1-8		Transparent Panel, Counter	(1)	
CA1-9		Emblem, National Panasonic Mark	(1)	
GA1-10		Ornament, Diode	(1)	
CA1-11		Ornament, Tweeter	1	OZ
CA1-12		Ornament, Cabinet Left Side	1	OZ
CA1-13		Ornament, Cabinet Right Side	1	OZ
CA1-14		Cassette Lid	1	OY
CA1-15		Spring (Left Side), Cassette Lid	1	OY
CA1-16		Spring (Right Side), Cassette Lid	1	OY
CA1-17		Handle Assembly	1	OX
	(Not Available, Order RYHR5410BX)	Handle Only	(1)	
	RYHR5410BX	Shaft (Steel), Handle	(1)	
CA1-18		Arm, Handle	2	Y
CA1-19		Screw, Handle M'tg	4	Z
CA1-20		Washer, Arm M'tg	2	Z
CA1-21	RHM58Z	Washer, Arm & Microphone	4	Z
		Assembly		
CA1-22	XWG3F10	Washer, Arm M'tg	2	Z
CA1-23		Screw, Arm M'tg	2	Z
	XYN3+C8S	Cabinet Back Cover Assembly	1	OX
CA2		Cabinet Back Cover Only	(1)	
	(Not Available, Order RYFR5410BX)			
CA2-1	RMC368Z	Shield Plate, Cabinet Back Cover	1	OZ
CA2-2		Terminal, EXT. Ant & Earth	2	Y
CA2-3		Terminal, Battery ⊕ Side	2	Y
CA2-4		Spring, Battery ⊖ Side	2	Y
CA2-5		Connecting Pipe, Battery Spring	2	Z
CA3	RJT398A	Microphone Assembly	1	OX
CA4		Telescopic Antenna, 8 Steps, 1077mm	1	OX
CA5	RWER5410BX	Neon Lamp, Arrestor, 100V, 0.3A	1	X
CA6		Meter, TUNE/LEVEL/BATT Indicator	1	OX
CA7	XAMR52T100	Pilot Lamp, Dial & Meter	1	X
CA8		Rubber Cushion, Pilot Lamp	2	Z
CA9	RHG211	Bracket, Meter	1	OZ
CA10		Terminal Strip (2 Terminals), Speaker	1	Z
	RJR1B	Socket (3 Terminals), PC Board	3	OZ
CA11		Button, Dial Light	1	OY
CA12	RBC97Z	Bracket, Dial Light Button	1	OZ
CA13		Battery Cover	1	OX

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CA14	RHG422Z	Rubber Cushion, Microphone Assembly	1	OZ
CA15	RNW452Z	Washer, Microphone Assembly	1	OZ
CA16	XUC6FW	Circlip, Microphone Assembly M'tg	1	Z
CA17	RBS83YK	Knob, Band Selector	1	OX
CA18	RBN283Y	Knob, Fine Tuning, Mic Mixing & Rec Level	3	X
CA19	RBN284Y	Knob, Volume	1	X
CA20	RBN294Z	Knob, Tuning	1	X
CA21	RBS85Y	Knob, Treble & Bass	2	OX
CA22	XTN3+10B	Screw, Cabinet Back Cover M'tg	5	Z
CA23	XTB3+12BFN	Screw, Cabinet Back Cover M'tg	3	Z
CA24	XSN3+6S	Screw, Cabinet Back Cover M'tg	2	Z
CA25	RNW824Z	Washer, Microphone	1	Z
CA26	XTN3+8B	Screw, Terminal Strip & Telescopic Ant. M'tg	2	Z
CA27	XTW3+8E	Screw, Meter Bracket M'tg	1	Z
CA28	RJT202B	Terminal, Telescopic Antenna	1	Z
CHASSIS				
CH1	RUL417Z	Bracket, Dial Drum	1	OX
CH2	RXER5410BX	Chassis Assembly	1	OX
		Chassis Only	(1)	
	(Not Available, Order RXER5410BX)			
CH2-1	RYDR5410BX	Shaft, Pulley	(2)	
CH3		Dial Assembly	1	OX
CH3-1	Not Available, Order RYDR5410BX	Base (Plastic), Dial	(1)	
CH3-2		Transparent Panel, Dial	(1)	
CH3-3		Roller, Dial Scale	(2)	
CH3-4		Gear (Large), Dial	(1)	
CH3-5		Gear with Shaft, Dial (Low Frequency Side)	(1)	
CH3-6		Shaft, Gear of Dial (High Frequency Side)	(1)	
CH3-7		Gear, Dial (High Frequency Side)	(1)	
CH3-8		Spring, Gear	(1)	
CH3-9		Dial	(1)	
		Circlip, Gear M'tg	(1)	
CH3-10	RDD200Z	Drum (Small), Dial	1	Y
CH3-11 (Fig. 7)		Screw, Drum (RDD200Z) M'tg	1	Z
	XWC3B	Washer, Drum (RDD200Z) M'tg	1	Z
CH4		Gear Assembly, Band Selector	1	OY
	(Not Available, Order RDG9003Z)			
CH4-1	RDG9003Z	Gear Only (Plastic), Band Selector	(1)	
CH4-2		Gear Only (Steel), Band Selector	(1)	
CH5	XBA2C10TRO	Holder, Gear	(1)	
CH6		Fuse, 1A	1	OX SAFETY
CH7	RJF7A	Fuse Holder	2	Z SAFETY
CH8	RJJ29Z-H	Jack, EXT. Power Source (AC IN)	1	Y SAFETY
	RJJ104Z-C	Jack, EXT. Power Source (DC IN 12V)	1	OY

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
CH9	RJJ105Z-C	Jack, Aux, Mic, Remote & Earphone	1	OY
CH10	RJS219Z-X	Socket (7 Terminals), Sleep Switch & PC Board	1	Z
CH11	RJS253Z-X	Socket (3 Terminals), PC Board & Mic Mixing Switch	3	OZ
CH12	RJT462Z-X	Terminal, Socket (RJS53Z-X & RJS219Z-X)	16	Z
CH13	RUB9016Z	Lever, Memory ON-OFF Switch	1	OY
	RUS80	Spring, Band Selector Gear	1	Z
	RHG845Z	Cover, Sleep, Mic Mixing, Loudness Switch	3	OZ
	RUV379Z	Cover, Rec & Tape Switch	2	Z
	RUV400Z	Cover, Memory ON-OFF & Power Radio ON, Aux ON Selector	2	OZ
	RUV401Z	Cover, Play, Eject etc. Button	1	OZ
CH14	RUV321Y	Cover, Voltage Selector	1	Z <del>EXCESS</del>
CH15	RUV387Z	Cover, EXT. Power Source Jack (AC)	1	Z <del>EXCESS</del>
CH16	RMA140Z	Bracket, Ferrite Antenna	2	OZ
CH17	RDD410Z	Drum, Dial	1	Y
CH18	RDG5642Z	Gear, Band Selector	1	OY
CH19	RDR23	Pulley, Dial	2	Y
CH20	RDS4090A	Spring, Dial	1	Z
CH21	RDT2273Z	Shaft, Tuning	1	OY
CH22	RDZ05A	Cord (500m), Dial	1 Roll	Y
CH23	RNW150-2	Washer, Pulley	3	Y
	RHG5A	Rubber Cushion, Tuning Capacitor	1	Z
CH24	RHG109	Rubber Cushion, Ferrite Antenna	2	Z
	RHG707Z	Rubber Cushion, PC Board (RF Circuit)	1	Z
CH25	RHD3100AS	Stay Shaft, PC Board (RF Circuit)	1	Z
CH26	RHR788	Holder, Band Selector Gear	1	OZ
CH27 (Fig.2)	XTN3+10BR	Red Screw, Chassis M'tg	9	Z
	XSN2+4	Screw, Sleep, Mic Mixing & Loudness Switch M'tg	3	Z
	XSN2+W6	Screw, Memory ON-OFF Switch M'tg	1	Z
	XSN2+6	Screw, EXT. Power Source Jack (DC IN) M'tg	2	Z
	XSN26+6	Screw, Tuning Capacitor M'tg	2	Z
	XNS8	Nut, Tuning Shaft, Rec Level & Mic Mixing M'tg	4	Z
	XNG3CS	Nut, Stay Shaft M'tg	1	Z
	XWA3B	Washer, Stay Shaft M'tg	1	Z
	XWV8	Washer, Tuning Shaft, Rec Level & Mic Mixing M'tg	3	Z
	RUL424Z	Bracket, Transformer	1	OZ
CH28 (Fig.3)	XYN3+F6S	Screw, PC Board M'tg	2	Z
CH29 (Fig.3)	XTN3+8F	Screw, PC Board M'tg	1	Z
CH30 (Fig.4)	XTW3+6L	Screw, PC Board & Band Selector Gear M'tg	6	Z
CH31 (Fig.3)	XTW3+8L	Screw, PC Board M'tg	5	Z
CH32	RJP133Z	Plug (3 Pins), Socket (RJS253Z-X)	3	OZ
CH33	RJF135Z	Plug (7 Pins), Socket (RJS219Z-X)	1	OZ
CH34 (Fig.4)	XYN3+F8S	Screw, PC Board (RF Circuit) M'tg	1	Z

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>ACCESSORIES</b>				
A1	XEAH1A1-P	Earphone, Impedance 8Ω	1	Y
A2	RJA21C	Power Cord, AC	1	Y <del>EXCESS</del>
A3	RJN13Z	Cassette Tape	1	Y
A4	RJP44	Plug, EXT. Ant. & Earth	2	Y
A5	RJP120ZS-H	Plug, Power Source	1	Y <del>EXCESS</del>
<b>PACKING MATERIALS</b>				
P1	RPP176Z	Polyethylene Cover	1	Z
P2	-RPN9177Z (Not Available, Order)	Pad Complete Pad, Left Side	1 (1)	OZ
P3	RPN9177Z	Pad, Right Side	(1)	
P4	RQX5929Z	Instruction Book	1	OY
P5	RPK380Z	Gift Box	1	OZ
<b>TAPE DECK</b>				
1	RMQ296A	Screw, Erase, R/P Head M'tg	3	Z
2	RMQ117A	Lug Terminal, R/P Head Lead	1	Z
3	RMQ643Z	Screw, R/P Head M'tg (Azimuth Adjustment)	1	OY
4	RMQ298A	Washer, R/P Head M'tg	1	Z
5	RJH16Z	R/P Head with Plate	1	OX
6	RMQ116A	Spring, R/P Head M'tg	1	Y
7	RMQ644Z	Spring, R/P Head M'tg	1	OY
8	RMQ645Z	Lead Wire, R/P Head & Leaf Switch	1	OY
9	RJH17Z	Erase Head	1	OX
10	RMQ646Z	Lead Wire, Erase Head & DC Motor	2	OY
11	XUC3FW	E Ring, Head Base Assembly & etc. M'tg	5	Z
12	XUC4FW	E Ring, Head Base Assembly & Idler Assembly etc. M'tg	4	Z
13	RMQ510Z	Lever Assembly, Auto-Stop Sensing	1	Y
14	XUC15FW	E Ring, Auto-Stop Sensing Lever Assembly, Brake Arm Assembly & Idler M'tg	3	Z
15	RMQ647Z	Spring, Head Base Assembly	1	OY
16	RMQ648Z	Spring, Pinch Roller	1	OY
17	RMQ649Z	Spring, Head Base Assembly	1	OY
18	RMQ650Z	Head Base Assembly	1	OY
19	RMQ539Z	Pinch Roller Assembly	1	OX
20	RMQ401A	Cap, Reel Table	2	Z
21	RMQ651Z	Takeup Reel Table Assembly	1	OY
22	RMQ652Z	Spring, Takeup Reel Table Assembly	1	OY
23	RMQ653Z	Supply Reel Table Assembly	1	OY
24	RMQ654Z	Belt, Teap Counter	1	OX
25	RMQ655Z	Washer, Supply Reel Table Assembly	3	OZ
26	RMQ299A	Brake Arm Assembly	1	Y
27	RMQ302A	Spring, Brake Arm Assembly	1	Y
28	RMQ604Z	Spring, Cassette Pressure	1	Y



Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
29	XSN26+3FZ	Screw, Bracket(RMQ659Z) & Cassette Pressure Spring & Cassette Holder M'tg	4	Z	70	RME70A	Lead Holder, DC Motor Lead	1	Z
30	RMQ317A	Safety Lever	1	Y	71	RMQ620Z	Cushion, DC Motor	2	Z
31	RMQ318A	Spring, Safety Lever	1	Y	72	MHI5R2GD	DC Motor	1	OX
32	RMQ541Z	Lever Assembly, Auto-Stop Drive	1	Y	73	RMQ676Z	DC Motor Pulley	1	OY
33	RMQ542Z	Spring, Auto-Stop Drive Lever Assembly	1	Y	74	RMQ677Z	Belt, DC Motor	1	OX
34	RMQ516Z	Spacer, Auto-Stop Drive Lever Assembly	1	Z	75	ECEA16V100E	Electrolytic Capacitor	1	Y
35	XYN26+C5	Screw, Auto-Stop Drive Lever Assembly M'tg	1	Z	76	RMQ678Z	Leaf Switch	1	OX
36	RMQ656Z	Lever Assembly, Pause	1	OY	77	RMQ679Z	Rod, Leaf Switch	1	OZ
37	RMQ657Z	Spring, Lever Lock	1	OY	78	RMQ326A	Spring, Leaf Switch Rod	1	Y
38	RMQ658Z	Lever, Lever Lock	1	OY	79	RMQ680Z	Rewind Pulley Assembly	1	OX
39	RMQ320A	Spring, Memory Lock Lever & Pause Lever Assembly	2	OY	80	RMQ337A	Spring, Rewind Assembly	1	Y
40	XUC2FW	E Ring, Pause Lever Assembly & Auto-Stop Drive Pawl M'tg	4	Z	81	RMQ425Z	Lever, Eject	1	Y
41	RMQ659Z	Bracket, PC Board	1	OZ	82	RMQ681Z	Lever, Memory Lock	1	OY
42	RMQ423Z	Spring, Eject Lever	1	Y	83	RMQ682Z	Flywheel Assembly	1	OX
43	RMQ660Z	Bracket, Solenoid Assembly	1	OZ	83-1	Not Available, Order RMQ682Z	Flywheel Only	(1)	
44	XYN3+C6S	Screw, Solenoid Assembly M'tg	2	Z	83-2		Spring, Flywheel	(1)	
45	RMQ661Z	Solenoid Assembly with Plunger	1	OY	83-3	RMQ433Z	Washer, Flywheel	1	Z
45-1	Not Available, Order RMQ661Z	Solenoid & Plunger	(1)		83-4	RMQ530Z	Washer, Flywheel	1	Z
45-2		Spring, Plunger	(1)		83-5	RMQ526Z	Cam, Flywheel	1	Y
46	XYN26+C4	Screw, Bracket(RMQ660Z) & Button Mechanism Assembly & etc M'tg	9	Z	84	RMQ683Z	Retainer, Flywheel	1	OZ
47	RVD10D1	Diode	1	X	85	XYN3+F6S	Screw, Retainer(RMQ683Z) M'tg	2	Z
48	RMQ662Z	Button Mechanism Assembly with Button	1	OY	86	RMQ315A	Retainer, Cassette Tape	1	Z
49	RMQ663Z	Button, PAUSE, FF/CUE, PLAY REWIND, STOP/EJECT	5	OX	87	RMQ684Z	Pawl Assembly, Auto-Stop Drive	1	OY
50	RMQ664Z	Button, RECORD	1	OX	88	RMQ518Z	Spring, Auto-Stop Drive Pawl Assembly	1	Y
51	RMQ665Z	Lever Assembly, Record	1	OY	89	RMQ348A	Washer(Nylon), Idler Bracket	1	Z
52	RMQ666Z	Spring, Record Lever Assembly	1	OY	90	RMQ428Z	Bracket, Idler	1	Y
53	RMQ667Z	Lever Assembly, Rewind	1	OY	91	RMQ139A	Spring, Idler Bracket	1	Y
54	RMQ328A	Spring, Rewind Lever Assembly	1	Y	92	RMQ527Z	Washer, Idler	2	Z
55	RMQ668Z	Lever Assembly, Fast Forward	1	OY	93	RMQ353A	Idler	1	X
56	RMQ669Z	Spring, Fast Forward Lever Assembly	1	OY					
57	RMQ670Z	Lever, Review	1	OY					
58	RMQ671Z	Lever, Cue	1	OY					
59	RMQ672Z	Spring, Review & Cue Lever	1	OY					
60	XUC25FW	E Ring, Review & Cue Lever M'tg	2	Z					
61	RMQ673Z	Fast Forward Idler Assembly, Fast Forward	1	OY					
62	RMQ450Z	Washer, Fast Forward Idler Assembly	1	Z					
63	RMQ674Z	Leaf Switch	1	OX					
64	XSN26+5	Screw, Leaf Switch M'tg	2	Z					
65	RMQ675Z	Tape Counter	1	OZ					
66	XSS3-5S	Screw, Tape Counter M'tg	2	Z					
67	RMQ616Z	Screw, DC Motor M'tg	2	Z					
68	RMQ615Z	Spacer, DC Motor	2	Z					
69	RMQ171A	Rubber, DC Motor	2	Z					